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Closed Topic Search

Published on SBIR.gov (<https://www.sbir.gov>)

[1. 9.03.01.77-R: A Verifier for Multicore C11 or C++11 Code](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

The 2011 ISO/IEC standards for C [1] (C11) and C++ [2] (C++11) introduced a portable, relaxed multithreaded memory model. Instead of guaranteeing sequential consistency [3] for all legal (data-race-free) programs, these standards allow each atomic shared memory operation to specify the degree of memory consistency it requires. The compiler has to add only the synchronization needed to achieve the ...

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[2. 9.03.02.77-R: Access Control Policy Tool](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Nearly all applications that deal with financial, privacy, safety, or defense include some form of access control. Access control is concerned with determining the allowed activities of legitimate users, mediating every attempt by a user to access a resource in the system. Access control policies are high-level requirements that specify how access is managed and who may access information under wh ...

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[3. 8.4.3D: Accurate Nightlight for Satellite Calibration for Weather and Climate Applications](#)

Release Date: 10-15-2014 Open Date: 10-15-2014 Due Date: 01-14-2015 Close Date: 01-14-2015

Summary: The excellent on-orbit performance of the Suomi NPP VIIRS Day Night Band (DNB) ushers in a new era of low light imaging at night. Its extreme sensitivity to low lights has already been demonstrated in numerous emerging applications, e.g., the rescue of a Bering Sea Fleet crab fishing vessel trapped in ice in the winter of 2013 in Alaska. This unprecedented capability heavily d ...

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[4. 9.01: Advanced Manufacturing](#)

Release Date: 03-09-2015 Open Date: 03-09-2015 Due Date: 05-15-2015 Close Date: 05-15-2015

Advanced Manufacturing is "a family of activities that (a) depend on the use and coordination of information, automation, computation, software, sensing, and networking, and/or (b) make use of cutting edge materials and emerging capabilities enabled by the physical and biological sciences, for example nanotechnology, chemistry, and biology. This involves both new ways to manufacture existing pro ...

SBIR National Institute of Standards and Technology Department of Commerce

5. [9.02.01.73-R: Advanced Tactile Sensing Technology for Robotic Hands](#)

Release Date: 12-11-2012Open Date: 12-11-2012Due Date: 03-04-2013Close Date: 03-04-2013

Manufacturing 9.02.01.73-R ...

SBIR Department of Commerce

6. [8.2.1F: Affordable Robust Nonlinear Towed Hydrophone Arrays](#)

Release Date: 10-15-2014Open Date: 10-15-2014Due Date: 01-14-2015Close Date: 01-14-2015

Summary: Passive acoustics has been increasingly used for population estimation during shipboard cetacean surveys conducted by NMFS Science Centers. Towed linear arrays are well-developed but are limited in their ability to provide real-time 3D localization. This is important for application to deep-diving species such as beaked whales, and for real-time localization of a single ...

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7. [9.03.03.77-R: Analysis and Visualization Tools for Automated Email Abuse Reports](#)

Release Date: 03-09-2015Open Date: 03-09-2015Due Date: 05-15-2015Close Date: 05-15-2015

Email coming from spoofed senders (referred to as phishing) is often used to inject malware into an enterprise. Several new technologies have been proposed to combat phishing by having the sending domain state its sending policy and vouch for sent email [1] [2]. Recently, a consortium of email providers developed a new technique called Domain-Based Message Authentication, Reporting and ...

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8. [9.02.02.63-R : Angularly Sensitive Detectors for Transmission Scanning Electron Microscopy](#)

Release Date: 12-11-2012Open Date: 12-11-2012Due Date: 03-04-2013Close Date: 03-04-2013

Manufacturing 9.02.02.63-R ...

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9. [8.3.2C: Assessing the Economic Value of Climate Predictions](#)

Release Date: 11-16-2011Open Date: 11-16-2011Due Date: 02-01-2012Close Date: 02-01-2012

In order to measure the economic value of the use of climate information, a methodology is

under development to estimate the use of climate information by the Southeast agricultural sector. If and when completed, this methodology may be transferable to other sectors, or it may be necessary to develop other sector-specific methods of assessing the use of climate information and the value of the in ...

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10. [9.2.1F: Automated Image Analysis for Fisheries Applications](#)

Release Date: 01-04-2013Open Date: 01-04-2013Due Date: 03-04-2013Close Date: 03-04-2013

Video and Image recording systems are increasingly being used by NMFS for a multitude of applications. Underwater systems are deployed on or near the seafloor or towed above the seafloor to record images of fish that are later analyzed to estimate numbers, sizes, and species composition of fish in an area. Underwater systems are also installed in trawls to collect images that can be us ...

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